Index of Claims

| Appl | ication/Control No |
|------|--------------------|

10/008,271

Examiner

Thai Q. Phan

Applicant(s)/Patent under Reexamination

FREYENSEE ET AL.

Art Unit

2128

| √ | Rejected |
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|   | Allowad  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
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| o | Objected |

| Cla         | im       | Date    |          |           | Cir    | Claim Date |          |          |          |          |               |          |          | _        | Claim Date |          |          |          |          |                 |           |          |          |               |          |           |          |          |          |          |           |          |
|-------------|----------|---------|----------|-----------|--------|------------|----------|----------|----------|----------|---------------|----------|----------|----------|------------|----------|----------|----------|----------|-----------------|-----------|----------|----------|---------------|----------|-----------|----------|----------|----------|----------|-----------|----------|
| - Oil       |          |         |          |           |        |            |          |          |          |          |               |          |          | $\dashv$ | <u> </u>   | aiiii    | Date     |          |          |                 |           |          |          |               |          |           |          |          |          |          |           |          |
| Final       | Original | 6/22/05 |          |           |        |            |          |          |          |          | Final         | Original |          |          |            |          |          |          |          |                 |           | Final    | Original |               |          |           |          |          |          |          |           |          |
|             | _ 1      | v       |          |           |        |            |          | Γ        |          |          |               | 51       |          |          |            |          | П        | П        | $\neg$   | $\neg$          | 7         |          | 101      |               |          |           |          |          |          |          |           |          |
|             | 2        | v       | П        |           |        |            | Г        | Π        | П        | $\neg$   |               | 52       |          |          |            |          |          | コ        | T        | $\neg$          | $\neg$    |          | 102      |               |          | 寸         |          |          |          |          |           |          |
|             | 3        | v       | П        |           |        |            | Π        | Π        |          | $\neg$   |               | 53       |          |          |            |          |          |          | ヿ        | $\neg \uparrow$ | 7         |          | 103      |               |          |           |          |          |          |          |           | _        |
|             | 4        | v       |          |           |        |            | Π        |          | П        | ヿ        |               | 54       |          |          | $\neg$     |          |          | 一        |          |                 | 1         |          | 104      |               |          | $\neg$    |          | П        | П        |          |           | _        |
|             | 5        | v       | П        |           |        |            |          |          | П        | $\neg$   |               | 55       |          |          | 寸          | ヿ        |          |          | 1        | 一               | 1         |          | 105      |               | _        | $\neg$    |          |          |          |          |           | _        |
|             | 6        | v       | П        |           |        |            | Г        |          | П        | $\neg$   |               | 56       |          | T        | ヿ          |          | $\neg$   | $\dashv$ | ヿ        | 一               | ┪         |          | 106      |               |          |           |          |          |          |          |           | _        |
|             | 7        | v       |          |           |        |            |          |          | П        |          |               | 57       |          |          | ヿ          |          | T        | $\neg$   | T        | $\neg$          | ╗         |          | 107      |               |          | T         |          |          |          |          |           |          |
|             | 8        | v       | П        |           |        |            |          |          | П        |          |               | 58       |          |          |            |          |          | $\neg$   |          |                 | 7         |          | 108      | П             |          | 寸         |          |          |          |          |           |          |
|             | 9        | v       | П        |           |        |            |          |          | П        | $\neg$   |               | 59       |          |          | $\neg$     | 一        |          | $\neg$   |          |                 |           |          | 109      |               |          |           |          |          |          |          | $\neg$    |          |
|             | 10       | v       |          |           |        |            |          |          | П        |          |               | 60       |          |          | $\neg$     |          |          | $\neg$   | ヿ        | $\neg$          |           |          | 110      |               | T        |           |          |          |          |          |           | _        |
|             | 11       | V       | П        |           | Г      |            |          |          | П        |          |               | 61       |          |          | _          | 一        |          |          |          |                 | 7         |          | 111      |               | $\neg$   | T         |          |          |          |          |           | _        |
|             | 12       | v       | П        |           |        |            |          |          | П        |          |               | 62       |          |          |            | 一        |          |          |          |                 |           |          | 112      |               |          |           |          |          |          |          |           |          |
|             | 13       | v       | П        |           |        |            |          |          |          |          |               | 63       |          |          |            |          |          | T        |          | T               |           |          | 113      | T             | T        |           |          |          |          |          |           | _        |
|             | 14       | v       | П        |           |        |            |          | Г        |          | $\neg$   |               | 64       |          |          | ヿ          |          |          | T        | T        |                 | 7         |          | 114      | ·             | $\neg$   | 1         |          |          |          |          |           | _        |
|             | 15       | v       |          |           |        |            |          | İ        |          | ヿ        |               | 65       |          |          | 寸          |          | 1        | T        | 寸        | $\neg$          | ┪         |          | 115      |               | _        |           |          |          |          |          | $\neg$    |          |
|             | 16       | v       |          |           |        |            |          | İ        |          | $\neg$   |               | 66       |          |          | T          | $\neg$   |          | 寸        | 寸        | $\neg$          | ┪         |          | 116      | П             | _        | 7         |          |          |          |          |           | _        |
|             | 17       | v.      | П        |           | Г      |            |          |          |          |          |               | 67       |          |          | T          | t        | 1        |          |          |                 | ヿ         |          | 117      |               | _        | 7         |          |          |          |          | $\neg$    |          |
|             | 18       | v       |          |           |        |            |          | i i      | Ħ        | _        |               | 68       |          |          |            |          |          | 7        | 寸        |                 | ┪         |          | 118      | $\Box$        | $\dashv$ | 7         |          |          |          |          | $\neg$    | _        |
|             | 19       | v       |          |           |        |            |          | T        | Ħ        | $\neg$   |               | 69       | _        | T        |            | $\neg$   |          | 寸        | ヿ        |                 | 7         |          | 119      | $\neg$        | $\neg +$ | 寸         | $\neg$   |          |          |          | $\neg$    | _        |
|             | 20       | v       | П        |           |        |            |          | 1        | П        |          |               | 70       |          | T        |            | T        | $\neg$   | 7        | 7        | _ t             | ╡         |          | 120      |               | $\dashv$ | 寸         |          |          |          |          | $\exists$ |          |
|             | 21       | v       | П        |           |        |            | T        |          |          |          |               | 71       |          | $\neg$   |            |          |          | 寸        | T        |                 | _         | $\vdash$ | 121      |               | $\dashv$ | 寸         | $\neg$   |          | $\neg$   |          | $\neg$    |          |
|             | 22       | v       | П        |           |        |            |          | <u> </u> |          |          |               | 72       |          | $\neg$   | $\neg$     |          | $\neg$   | 寸        | 7        |                 | ┪.        |          | 122      |               | $\dashv$ | 寸         | $\neg$   |          | $\neg$   |          | $\dashv$  | -        |
|             | 23       | V       |          |           |        |            | Г        |          | П        |          |               | 73       |          |          |            |          | T        | $\neg$   | 一        | 十               | 7         |          | 123      | $\neg$        | 十        | _         | $\neg$   |          |          |          | $\neg$    | _        |
|             | 24       | v       | $\Box$   |           |        |            | Т        |          | П        |          |               | 74       |          |          |            | T        | $\dashv$ |          |          | 一               | ٦.        |          | 124      | $\dashv$      |          | _         | $\neg$   | $\neg$   |          | $\neg$   |           | _        |
|             | 25       | v       |          |           |        | -          | $\vdash$ | T        | П        |          |               | 75       |          |          | T          | $\dashv$ | $\dashv$ | _        | 寸        | 十               | ٦.        | -        | 125      | $\dashv$      | 十        | $\dashv$  | $\neg$   | $\dashv$ |          |          |           | _        |
|             | 26       | v       |          |           |        |            |          | Г        |          | _        |               | 76       |          |          | 7          | ヿ        | 寸        | 7        | 寸        | 十               | ┪.        | -        | 126      |               | 十        | _         |          | $\dashv$ | $\vdash$ |          | ┪         |          |
|             | 27       | ٧       |          |           |        |            |          |          | H        | _        |               | 77       |          |          | ┪          | _        | _        | 7        | $\dashv$ |                 | $\dashv$  |          | 127      |               | 十        | $\dashv$  | _        |          | $\neg$   |          | $\dashv$  | _        |
|             | 28       | v       |          |           |        |            | I        | -        |          |          |               | 78       |          |          | 7          | ┪        | 寸        | ┪        | $\dashv$ |                 | $\dashv$  |          | 128      |               | $\dashv$ | +         | _        |          |          |          | $\neg$    |          |
|             | 29       | ٧       |          |           |        |            |          |          | Н        | $\neg$   |               | 79       | $\Box$   |          | 寸          | 7        | 7        | 7        | 寸        | $\dashv$        | $\dashv$  |          | 129      | $\overline{}$ |          | $\dashv$  | $\dashv$ |          |          |          | $\dashv$  | _        |
|             | 30       | ٧       |          |           |        |            | Г        | T        | П        | $\neg$   |               | 80       |          |          | $\neg$     | ┪        | 寸        | 7        | _        | _               |           |          | 130      | _             | $\dashv$ | $\dashv$  | ┪        |          |          |          | $\dashv$  | _        |
|             | 31       | ٧       |          |           |        |            |          |          | H        |          |               | 81       |          | $\neg$   | $\dashv$   | 7        | $\dashv$ | 十        |          | _               | 7         |          | 131      |               | $\dashv$ | 十         | $\dashv$ |          | -        |          | $\dashv$  | _        |
|             | 32       | v       | $\Box$   |           |        |            | _        |          | H        | $\neg$   |               | 82       |          | $\neg$   | 7          | $\dashv$ | 寸        | $\dashv$ | _        |                 | _         |          | 132      | -             |          | 寸         | ᅥ        | $\dashv$ |          | -        | $\dashv$  | _        |
|             | 33       | v       |          |           |        |            |          |          |          | $\dashv$ |               | 83       | $\neg$   | 7        | ヿ          |          | _        | _        | T        | 十               | ┪         |          | 133      | $\dashv$      | 十        | 寸         | ᅱ        | _        | $\dashv$ |          | $\dashv$  |          |
|             | 34       | ٧       |          |           |        |            | Г        | П        | П        | $\neg$   |               | 84       | $\vdash$ | $\neg$   | $\dashv$   | _        | +        | -+       | 一        | $\dashv$        | 7         |          | 134      |               | $\dashv$ | $\dashv$  | _        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | -        |
|             | 35       | v       | $\Box$   |           |        |            |          | П        | $\Box$   | $\dashv$ |               | 85       |          | $\neg$   | $\dashv$   | $\neg$   | 7        | $\dashv$ | 7        | _               | 7         |          | 135      | $\dashv$      | $\dashv$ | 寸         |          |          | $\dashv$ |          | -         | 7        |
|             | 36       | >       | $\sqcap$ |           |        |            | Г        | П        | $\sqcap$ | $\neg$   |               | 86       |          | $\neg$   | $\dashv$   |          | $\dashv$ | 十        | 7        | $\top$          | ┪         |          | 136      |               | $\top$   | 7         | 7        | $\dashv$ | _        | $\dashv$ |           | _        |
|             | 37       | ~       |          |           |        |            | Ι        | П        | П        | $\neg$   |               | 87       |          | $\neg$   | $\dashv$   | $\dashv$ | $\dashv$ | _        | -        | _               | 1         |          | 137      | $\dashv$      | $\dashv$ | 7         | $\dashv$ | _        | $\neg$   | $\dashv$ |           |          |
|             | 38       | >       |          | $\neg$    |        |            |          | П        | H        | $\neg$   |               | 88       |          |          | 寸          | 一        | $\dashv$ | $\dashv$ | $\dashv$ | 十               | $\exists$ |          | 138      | $\dashv$      | $\dashv$ | ヿ         | $\dashv$ | 一        | $\dashv$ | $\dashv$ | $\dashv$  | _        |
|             | 39       | >       | $\neg$   | $\neg$    |        |            | П        | П        | П        | $\dashv$ |               | 89       |          | 寸        | 7          |          | 7        | $\dashv$ | $\dashv$ | 十               | ┪         |          | 139      | 7             | $\top$   | T         | ᅦ        | 一        | $\dashv$ | $\dashv$ | $\dashv$  | _        |
|             | 40       |         |          |           |        |            |          |          | $\vdash$ | 7        |               | 90       |          |          | 1          | 寸        | 寸        | $\dashv$ | 7        |                 | 7         |          | 140      | $\dashv$      | $\dashv$ | 7         | 一        | $\dashv$ | -        | $\dashv$ | $\dashv$  | _        |
|             | 41       |         | $\Box$   | $\exists$ |        |            |          | П        | П        | 7        |               | 91       | $\dashv$ | $\dashv$ | 7          | -        | $\dashv$ | $\neg$ † | 寸        | 1               | 1         |          | 141      | -             | +        | $\dashv$  | -        | $\dashv$ | $\dashv$ | $\dashv$ | ᅱ         | $\neg$   |
|             | 42       |         |          | $\dashv$  |        |            |          | П        |          | 7        |               | 92       | $\dashv$ | 一十       | 7          | 7        | 寸        | _        | 寸        | $\dashv$        | _         |          | 142      | $\dashv$      | +        | $\dashv$  | ┪        | 一        |          | -        | ᅥ         | $\dashv$ |
| $\neg \neg$ | 43       |         |          | $\dashv$  |        |            | П        | П        | $\Box$   | $\neg$   |               | 93       |          | _        | $\dashv$   | 寸        | $\dashv$ | $\dashv$ | _        | 十               | 7         |          | 143      | $\dashv$      | $\dashv$ | +         | 7        | $\dashv$ |          | $\dashv$ | +         | -        |
|             | 44       | -       |          | $\dashv$  |        | $\neg$     |          | П        | H        | $\neg$   |               | 94       | $\vdash$ | $\dashv$ | 寸          | 寸        | $\dashv$ | 十        | $\dashv$ | 十               | ヿ         |          | 144      | -             | $\dashv$ | $\dashv$  | 7        |          | 一        | ┪        | +         | $\dashv$ |
|             | 45       |         |          | $\neg$    |        | $\neg$     |          | П        | $\Box$   |          |               | 95       | -        | $\dashv$ | _          | $\dashv$ |          | 十        | $\dashv$ | +               | $\dashv$  |          | 145      | $\dashv$      | $\dashv$ | $\forall$ | ᅱ        |          | $\dashv$ | $\dashv$ | $\dashv$  | _        |
|             | 46       |         |          | $\neg$    |        |            |          | П        |          |          |               | 96       |          | $\dashv$ | 7          | _        | $\neg$   | 十        | 7        | $\dashv$        | ┪         |          | 146      | -             | $\top$   | $\forall$ | 1        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | _        |
|             | 47       |         |          |           | $\neg$ |            | П        | П        | $\Box$   | $\dashv$ | $\vdash$      | 97       |          |          | +          | $\dashv$ | 1        | 十        | 1        | 十               | 7         | 1        | 147      | 一             | $\dashv$ | +         | -        | $\dashv$ | $\dashv$ |          | - 1       | _        |
|             | 48       |         |          | $\dashv$  |        |            | П        | М        |          | $\neg$   | $\vdash \neg$ | 98       |          | $\dashv$ | $\dashv$   | 7        | 十        | _        | $\dashv$ | -+              | $\dashv$  |          | 148      | $\dashv$      | +        | +         | ᅥ        | 一        | ᅥ        |          |           | _        |
|             | 49       |         |          |           |        |            | П        | П        |          | $\neg$   |               | 99       |          | 一        | 一          | 寸        | 7        | 十        | 7        | $\neg$ †        | 7         |          | 149      | 寸             | $\top$   | +         | 1        | ᅥ        | $\dashv$ | $\dashv$ |           | $\dashv$ |
|             | 50       |         |          |           |        |            |          | П        |          | $\neg$   |               | 100      | $\dashv$ | $\dashv$ | 7          | _        | 十        | $\dashv$ | 寸        | -               | 7         |          | 150      |               | $\top$   | $\dashv$  | +        | -+       |          | -        | $\dashv$  | $\dashv$ |